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(71) Applicants (for all designated States except US): AVEN-
TIS PASTEUR, INC. [US/US]; Discovery Drive, Swift-
water, PA 18370 (US). THERION BIOLOGICS, INC.
[US/US]; 76 Rogers Street, Boston, MA 02142 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): PARRINGTON,
Mark [CA/CA]; 1755 Steeles Avenue, Toronto, On-
tario M2R 3T4 (CA). BERINSTEIN, Neil [CA/CA];
1755 Steeles Avenue, Toronto, Ontario M2R3T4 (CA).
TARTAGLIA, James, T. [CA/CA]; 1755 Steeles Avenue,
Toronto, Ontario M2R 3T4 (CA). PANICALLI, Dennis
[US/US]; 76 Rogers Street, Boston, MA 02142 (US).
GRITZ, Linda [US/US]; 76 Rogers Street, Boston, MA
02142 (US).

(74) Agent: HALLORAN, J., Patrick; Aventis Pasteur, Inc.,
Discovery Drive, Swiftwater, PA 18370 (US).

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(54) Title: MODIFIED KSA AND USES THEREOF

A. Amino Acid Sequence Comparison of "Wild-Type KSA" (1) and Modified KSA (2)

1 MAPPQVLAFGLLLAAATATFAAAQEEVCENYKLAVNCFVNNRQCQCTSVGAQNTVIC
2 MAPPQVLAFGLLLAAATATFAAAQEEVCENYKLAVNCFVNNRQCQCTSVGAQNTVIC

1 SKLAAKCLVMKAEMNGSKLGRRAKPEGALQNNNDGLYDPCDESGLFKAKQCNGTSTCWC
2 SKLAAKCLVMKAEMNGSKLGRRAKPEGALQNNNDGLYDPCDESGLFKAKQCNGTSTCWC

1 VNTAGVRRTDKDTETTCSEVRITYWIIIELEKHKAREKPYDSKSLRTALQKEITTRYQLD
2 VNTAGVRRTDKDTETTCSEVRITYWIIIELEKHKAREKPYDSKSLRTALQKEITTRYQLD

1 PKFITSILYENNVITIDLQVNSSQKTQNDVDIADVAYYFEKDVKGESLFHSHKMDLTVN
2 PKFITSILYENNVITIDLQVNSSQKTQNDVDIADVAYYFEKDVKGESLFHSHKMDLTVN

1 GEQLDLDPGQTLIYYVDEKAPEFSMQGLKAGVIAVIVVVVIAVVAGIVVLVISRKKRMA
2 GEQLDLDPGQTLIYYVDEKAPEFSMQGLKAGVIAVIVVVVIAVVAGIVVLVISRKKRMA

1 KYEKAETIKEMGEMHRELNA
2 KYEKAETIKEMGEMHRELNA

(57) Abstract: The present invention relates to a nucleic acid encoding a polypeptide and the use of the nucleic acid or polypeptide in preventing and/or treating cancer. In particular, the invention relates to improved vectors for the insertion and expression of foreign genes encoding tumor antigens for use in immunotherapeutic treatment of cancer.



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